



## **IQ 800 Satellite/Cellular Hybrid Tracking Unit**

IQgistics IQ 800 Satellite/Cellular Hybrid Tracking unit is a dependable, fully integrated D+/GPRS wireless controller. It sets the standard for reliable asset tracking and management systems at a low combined total cost. The IQ 800 ensures that your applications are delivered with lowest cost message routing using GPRS/EDGE networks when your assets are in cellular coverage, and automatically switches to Inmarsat D+ satellite network where necessary, maintaining a critical lifeline link to your fleet. Assets moving anywhere in the world are visible and reachable at all times by your fleet operations.

### **Physical**

Size	Transceiver: 155 mm x 125 mm x 51 mm Satellite Antenna: 127 mm x 93 mm x 23 mm
Weight	Transceiver: 244 g Satellite Antenna: 166 g

### **Environmental**

Operating Range	Transceiver (In-Cab): -30°C to 65°C Satellite & GPRS Antennas: -40°C to 75°C
Storage Range	-40 °C to 85°C
Humidity	95% Relative Humidity at 30°C
Vibration	5-20 Hz: 1.92 m <sup>2</sup> /s <sup>3</sup> random noise 20-500 Hz: -3dB octave random noise
Shock (Survival)	Half sine 6ms, 300 m/s <sup>2</sup>

### **Electrical**

Input Voltage	9 VDC to 32 VDC
Power Consumption (typical @ 12VDC)	Transmit: 10 W (D+ & IsatM2M) Transmit: 8 W (GPRS) Receive: 2 W (Typical) Sleep: 300 µA Idle: 0.25 W GPRS Inactive: 1.5 W GPS/GPRS Inactive: 0.9 W
Mating Connector	Transceiver I/O: JAE IL-AG5-30S-D3C1 Satellite Antenna: FAKRA FAI-NARP-PCB-M GSM/GPRS Antenna: SMA Female

### **Satellite**

Coverage	To +/- 75 Degrees Latitude with 5 overlapping Ocean Regions
Frequency Range	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
EIRP	0 dBW to 9 dBW
Elevation Angle Range	0 to 90 degrees
GPS	16 Channels: 1575.42 MHz
Accuracy	3 m CEP: 5m SEP

### **GSM/GPRS**

Frequency	850/900/1800/1900 MHz
GPRS Data	Class 12 multislot: Coding scheme 1 to 4 Class B mobile station: PBCCH support Class 4 (2 W) for EGSM 850 and 900 Class 1 (1 W) for GSM 1800 and 1900

### **Certifications**

Inmarsat Type Approval	
R&TTE (CE Marking): PTCRB:	FCC: RoHS
Transceiver (In-Cab):	IP40/NEMA1
Satellite Antenna:	IP66/NEMA4X